AUSTIN MOSS CREATIONS

Fire & Material Performance

Preserved Moss Wall Systems — Commercial Interiors

CSI Division 09 — Finishes · Section 09 77 53 · Document AMC-TD-02 · Revision 05 · Issued 23 July 2026

Scope and limits of this document

Fire classifications shown apply to individual component materials as tested under the standards noted. They do not constitute a fire rating, classification, or listing of the assembled Austin Moss Creations system, and no UL Classification, listing, or marking applies to the assembled system.

A full-assembly ASTM E84 / UL 723 test of the complete Austin Moss Creations system has been commissioned and is in progress; results are pending and will be published on completion and provided at submittal. Until those results are published, no full-assembly classification is held or represented.

EN 13501-1 is a European classification and is not a substitute for ASTM E84 / UL 723 where the Authority Having Jurisdiction requires the North American standard. Installed fire performance depends on the specific assembly, the adjacent construction, and field conditions. Compliance with applicable building codes for a given Project is determined by the design team and the Authority Having Jurisdiction.

Austin Moss Creations is a commercial architectural specialty manufacturer of preserved moss wall systems for commercial interiors. Systems are assembled from component materials that carry fire-test documentation under the standards shown below. This document reports that component documentation and the current status of full-assembly testing. Component classifications do not, on their own, determine tested performance of an assembled system or code compliance for any Project.

How to Read This Data

Fire performance in this product category is reported at three distinct levels. Confusing them is the most common source of error in specification and submittal review, so they are separated here.

Level	What it means
Component material	A single material — botanical surface, acoustic felt, or structural backing — tested on its own under a named standard. All component classifications in this document are at this level. Component classification does not transfer to the assembly.
Tested assembly	The complete layered system tested as built. A full-assembly ASTM E84 test has been commissioned and is in progress; results are pending. Until published, Austin Moss Creations holds no full-assembly classification and represents none.
Field condition	The installed condition on a specific Project — the assembly as built, its substrate, adjacent construction, penetrations, and the occupancy it serves. Field performance and code compliance are determined by the design team and the Authority Having Jurisdiction, not by this document.

Component Material Performance

The following classifications reflect current test documentation held for the component materials used in Austin Moss Creations systems. Materials are specified and procured by performance; documentation for the specific materials furnished on a Project is provided at submittal.

System layer	Standard	Classification
Preserved botanical material — fire-rated lines	EN 13501-1:2019 (UNE-EN 13501-1)	B-s1,d0. B: very limited contribution to fire. s1: low smoke production. d0: no flaming droplets or particles within the classification period defined by the standard. Tested by an accredited third-party laboratory. Applies to fire-rated preserved botanical material lines only; standard preserved material is not classified. ASTM E84 classification of the botanical surface is addressed at the assembly level — see ASTM E84 — Assembly Testing Status.
Acoustic felt layer — polyester (PET)	ASTM E84 / UL 723	Class A. Flame Spread Index (FSI): 0–25. Smoke Developed Index (SDI): 0–450.
Structural backing panel — fire-retardant-treated	ASTM E84 / UL 723 (extended 30-minute test)	Class A. Flame Spread Index (FSI): not greater than 25 under the extended 30-minute test. Fire-retardant-treated. UL Classified material.

Component materials are procured from approved sources meeting the published performance requirements of this document. Austin Moss Creations reserves the right to provide materials from any source meeting or exceeding those requirements. Materials furnished on a given Project are documented at submittal.

ASTM E84 — Assembly Testing Status

Status: full-assembly ASTM E84 / UL 723 test commissioned; testing in progress; results pending.

A full-assembly ASTM E84 / UL 723 test of the complete Austin Moss Creations preserved moss wall system — preserved botanical surface, acoustic felt layer, and fire-retardant-treated structural backing, as installed — has been commissioned and is in progress. On completion, the report will be published in a revision of this document and provided for project submittals.

Until those results are published: the ASTM E84 / UL 723 Class A classifications in this document apply to the acoustic felt layer and the structural backing panel as shown; the preserved botanical surface carries the EN 13501-1 B-s1,d0 classification shown. No ASTM E84 classification of the botanical surface, or of the assembled system, is held or represented at this time.

Where a Project or Authority Having Jurisdiction requires ASTM E84 documentation of the assembled system before the Austin Moss Creations assembly report is published, identify the requirement during coordination so that timing can be addressed for the Project.

Fire-Rated and Standard Botanical Material

Not all preserved botanical material carries a fire classification. Where fire-rated material is required by the Project or the Authority Having Jurisdiction, it must be specified and scheduled as such, and it should be identified during coordination rather than at submittal.

- Fire-rated preserved botanical material: EN 13501-1 B-s1,d0 classification documentation available. Color range and composition options may differ from standard material.
- Standard preserved botanical material: no fire classification is held or represented. Do not specify standard material where a fire classification is required.
- Where the Authority Having Jurisdiction requires ASTM E84 classification of the botanical material rather than the European classification, confirm availability and timing during coordination and before fabrication.

Acoustic Performance

Property	Data
NRC — felt layer only	NRC 0.85 at 3/8 in.; NRC 0.90 at 3/4 in. per ASTM C423.
Scope of the value	These values apply to the polyester (PET) acoustic felt layer tested on its own. They are not whole-system moss wall acoustic values and are not represented as such. The assembled system has not been tested for sound absorption.
Where provided	The acoustic felt layer is provided where sound absorption is scheduled. Where it is not scheduled, no acoustic performance is provided or represented.

Documentation for Project Submittals

The following documentation is provided for project submittals at no additional cost, typically within five business days of a complete request. Documentation identifies the material by standard, classification, laboratory, and report reference.

- EN 13501-1 B-s1,d0 classification documentation for fire-rated preserved botanical material, issued by an accredited third-party laboratory.
- ASTM E84 / UL 723 Class A test documentation for the polyester (PET) acoustic felt layer. FSI 0–25; SDI 0–450.
- ASTM E84 / UL 723 Class A documentation and UL Classification evidence for the fire-retardant-treated structural backing panel, with treatment certification.
- Full-assembly ASTM E84 report: testing in progress; the report will be provided upon completion.

To request documentation: provide the Project name, the Authority Having Jurisdiction, the required standard, and which documentation is needed. Where the request is driven by a plan review comment, provide the comment text so that the correct documentation is issued the first time.

Full-Assembly Testing

A full-assembly ASTM E84 test of the preserved moss wall system has been commissioned and is in progress. Until the results are published, Austin Moss Creations holds no standing full-assembly ASTM E84 classification and represents none in this or any other Austin Moss Creations document.

On completion, results will be published in a revision of this document and provided at submittal. Assembly testing requires lead time in addition to the published fabrication lead time. Contact Austin Moss Creations during coordination to confirm current status and scheduling for a specific Project.

Material Characteristics in Service

Characteristic	Detail
Living status	Preserved botanical material is stabilized and non-living. It does not grow.
Growing medium	The system contains no soil and no growing medium.
Water	The system receives no irrigation and introduces no ongoing moisture source into the wall assembly. Direct water contact is prohibited.
Horticultural inputs	No fertilizers, pesticides, or grow lighting are required or used during operation.
Environmental certifications	Austin Moss Creations makes no project-specific indoor air quality, VOC, Red List, WELL, LEED, or environmental certification claims except where

Characteristic	Detail
	supported by project-specific documentation. Where a Project pursues such credits, identify the requirement during coordination.
Applications	Hospitality, corporate workplace, healthcare, retail, restaurants, education, multifamily, and mixed-use interiors.

Design Responsibility

Austin Moss Creations provides product information, performance data, and installation requirements for the preserved moss wall system. Shop drawings show panel layout, module dimensions, joint locations, and mounting component locations; they are not delegated-design submittals and are not represented as engineering documents. Project-specific design responsibility, including structural adequacy of the building structure, wall framing, substrate, and blocking, remains with the Architect of Record and the Project's design professionals unless Austin Moss Creations is separately contracted in writing for that scope.

Document Control

Field	Value
Document title	Fire & Material Performance — Preserved Moss Wall Systems
Document number	AMC-TD-02
Revision	05
Issue date	23 July 2026
Status	Released for distribution
Document owner	Mary Cowger, Founder & Creative Principal, Austin Moss Creations LLC
Supersedes	Revision 04 (22 July 2026) and all prior revisions
Distribution	Public. May be issued to architects, general contractors, owners, and Authorities Having Jurisdiction.
Related documents	AMC-TD-01 · AMC-TD-03 · AMC-TD-04 · AMC-TD-05 · AMC-TD-06

Revision History

Rev.	Date	Description	Approved by
01	May 2026	Initial controlled release.	M. Cowger
02	June 2026	Component-level framing reaffirmed; table formatting corrected; component sources identified for submittals.	M. Cowger
03	July 2026	Contact information standardized; CSI section number confirmed as 09 77 53; coordination and lead-time references aligned.	M. Cowger
04	22 July 2026	Legal and specification audit implemented. All component suppliers and product lines removed and replaced with performance descriptions. Scope and limits statement moved to head of document. Three-level framework (component / tested assembly / field condition) added. Fire-rated versus standard botanical material distinguished. Full-assembly testing given a dedicated section with an express statement that no standing	M. Cowger

Rev.	Date	Description	Approved by
		assembly classification is held. Material characteristics in service added.	
05	23 July 2026	Full-assembly ASTM E84 testing status added: a complete-system ASTM E84 / UL 723 test has been commissioned and is in progress, with results pending and to be published on completion and provided at submittal. European (EN 13501-1 B-s1,d0) classification of the botanical surface retained unchanged. New “ASTM E84 — Assembly Testing Status” section added and cross-referenced from the component table, the Scope and limits statement, the Documentation for Project Submittals list, and the Full-Assembly Testing section. No component classification changed. No ASTM E84 class of the botanical surface or of the assembled system is claimed prior to publication of the assembly report.	M. Cowger

This document, Revision 05 dated 23 July 2026, supersedes all prior revisions of the Austin Moss Creations Fire & Material Performance data sheet. Prior revisions are withdrawn and should not be relied upon. Where this document conflicts with a prior revision in a project file, this revision governs.

Legal notice

This document is provided for design assistance. Values shown are typical and are based on available test documentation for individual component materials under the standards noted; they do not represent tested performance of the assembled system. A full-assembly ASTM E84 test is in progress and no full-assembly classification is represented until its results are published. Project-specific conditions govern, and project values are confirmed at submittal. Nothing in this document constitutes a warranty, express or implied. The Austin Moss Creations Commercial Limited Warranty is the sole and exclusive warranty for the System.